COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS AASHTO T 22

APPARATUS

]	Testing machine has a verification of calibration within the last 13 months Protective Cage						
P	ROC	CEDURE SULFUR MORTAR CAPS						
]]	Diameter of test specimen determined to nearest 0.01 in. by averaging two diameters measured at right angles to each other at mid-height of specimen (shall not differ by more than 2%)						
[]	Length of test specimen determined to nearest 0.05 x diameter when length to diameter ratio is less than 1.8 or more than 2.2						
[]	Test specimens kept moist during the period between removal from moist storage and testing						
[Lower bearing block placed, with hardened face up, on the table or platen of testing machine directly under the upper bearing block						
[]	Faces of both bearing blocks and test specimen wiped clean, and test specimen placed on the lower bearing block						
]	Load indicator set to zero. If indicator is not properly set to zero, indicator is adjusted. As spherically-seated block is brought to bear on the specimen, movable portion of block is rotated gently by hand so that uniform seating is obtained.						
]	Load applied continuously and without shock For screw-type testing machines, the moving head rate of movement is adjusted to achieve a stress rate of 35 ± 7 psi/s						
[]	For hydraulically-operated testing machines, load applied at a rate of movement corresponding to a stress rate on the specimen of 35 ± 7 psi/s						
[]	Rate of movement maintained at least during the latter half of anticipated loading phase of testing cycle						
[]	No adjustment in rate of movement of platen made at any time while specimen is yielding rapidly immediately before failure						
Γ]	Load applied until test specimen fails						
	j	Maximum load carried by test specimen during test recorded. Type of failure and appearance of concrete noted.						
Γ]	Capp thickness measured and does not exceed limits						
]	Compressive strength of test specimen determined to nearest 10 psi as follows:						
		Compressive Strength = Maximum Load Average Cross - Sectional Area						

[]	Compressive strength corrected when specimen length-to-diameter ratio is equal to or less than 1.75 by multiplying by a correction factor as follows:						
	L/D: Factor: (Values not g	1.75 0.98 given in table	1.50 0.96 are determine	1.25 0.93 ed by interpola	1.00 0.87 ation)		
PRO	CEDURE N	EOPRENE	CAPS				
	Each neoprene cap used to test no more than 100 cylinders Same surface of neoprene cap used for all tests with that cap Concrete cylinder ends have no depressions deeper than 0.12 in. Perpendicularity is verified for compliance on both ends of specimen [] 6 in.x 12 in. cylinders:0.12 in. at 12 in. [] 4 in.x 8 in.cylinders 0.08 in. at 8 in. 6 in. diameter cylinders do not differ in height by 0.2 in. for any two measurements Extrusion controllers, containing neoprene caps, placed on the top and bottom surfactest specimen Axis of test specimen aligned with center of upper bearing block No loose particles trapped between test specimen and neoprene caps or between bearing surfaces of extrusion controllers and bearing blocks Procedure for testing same as procedure for testing cylinders with sulfur mortar except as noted within this section						
Accep	ptance Technici	ian					
INDO	T			Date			
Comr	ments						

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